Index of Claims



Application/Control No.

10/660,216

Examiner

James Kish

Date

Applicant(s)/Patent under Reexamination

MATHIAS ET AL.

Art Unit

3737

| R | Rejected |
|---|----------|
| 1 | Allowed  |

| _ | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| + | Restricted                     |

Claim

| N | Non-Elected  |
|---|--------------|
| ı | Interference |

| Α | Appeal   |
|---|----------|
| 0 | Objected |

| Claim        |                        |              |            |              |              |                                |          |              |                   |          |
|--------------|------------------------|--------------|------------|--------------|--------------|--------------------------------|----------|--------------|-------------------|----------|
| Cla          |                        |              |            | [            | Date         | 2                              |          | _            | ᆈ                 |          |
| Final        | Original               | 2/18/07      |            |              |              |                                |          |              |                   |          |
|              | 1                      | R            |            |              |              |                                |          |              |                   |          |
|              | 1<br>2<br><del>3</del> | R            |            |              |              |                                |          |              |                   |          |
|              | 4                      |              |            |              |              | L.,                            |          |              |                   | Ш        |
|              | 4                      | R            |            |              |              |                                |          |              |                   | Ш        |
|              | 5                      | R            |            |              |              | _                              |          |              |                   | Н        |
|              | 6                      | R            | Ė          | $\vdash$     |              |                                |          | -            |                   | Н        |
| <u> </u>     | 8                      | R            |            |              | _            |                                |          |              |                   | $\vdash$ |
| <b></b>      | 9                      | R            |            | $\vdash$     | -            |                                |          |              | _                 |          |
|              | 10                     | R            |            |              |              |                                |          |              |                   |          |
|              | 44                     |              |            |              |              |                                |          |              |                   |          |
|              | 12<br>13               | R            |            |              |              |                                |          |              |                   |          |
|              | 13                     | R            | L          | <u> </u>     |              |                                |          |              |                   | Щ        |
|              | 14<br>15               | R            |            | _            |              |                                |          | L.,          | _                 |          |
|              | 15                     | R            | $\vdash$   | $\vdash$     | _            | _                              |          | <u> </u>     |                   |          |
| <u> </u>     | <del>10</del>          | R            | -          | <u> </u>     | -            | <u> </u>                       |          |              | -                 | Н        |
| <del> </del> | 17<br>48               | <u> </u>     |            | H            |              |                                |          |              |                   | Н        |
| <u> </u>     | 19                     | R            | H          | -            |              |                                |          |              |                   | $\vdash$ |
|              | 20                     | R            |            | $\vdash$     |              |                                |          |              | _                 | Н        |
|              | 21                     |              |            |              |              | <u> </u>                       |          |              | Г                 |          |
|              | 22                     | R            |            |              |              |                                |          |              |                   |          |
|              | 23                     | R            |            |              |              |                                |          |              |                   |          |
|              | 24                     | R            | _          | L            |              | <u> </u>                       |          | Ŀ            | ·                 |          |
| ļ            | 25                     |              | _          |              | <u> </u>     | _                              | _        |              |                   |          |
| <u> </u>     | 26<br>27               | H            | _          |              | _            | <u> </u>                       |          |              |                   | Н        |
|              | 28                     |              | ⊢          |              |              | -                              |          |              | <u> </u>          | Н        |
| <u> </u>     | 28<br>29               |              | _          |              |              | H                              | H        |              |                   | Н        |
| <b>-</b>     | 30                     |              | $\vdash$   | $\vdash$     | _            | ┢                              | -        | -            | $\vdash$          | Н        |
|              | 31                     |              | -          | -            | _            |                                |          |              | _                 |          |
|              | 32                     |              |            |              |              |                                |          |              |                   |          |
|              | 33                     |              |            |              |              |                                |          |              |                   |          |
|              | 34                     | $\Box$       | Ĺ          | Ĺ            |              |                                |          |              | L                 | Ш        |
| <u> </u>     | 35                     | L            | lacksquare | <u> </u>     | <u> </u>     | $\vdash$                       | L        | L            | $ldsymbol{f eta}$ | Ш        |
| <u> </u>     | 36                     |              | $\vdash$   | $\vdash$     | <u> </u>     | <u> </u>                       | <u> </u> | <u> </u>     | $\vdash$          | Н        |
|              | 37<br>38               | -            | $\vdash$   | -            | <del> </del> | $\vdash$                       | $\vdash$ | $\vdash$     | ├-                | -        |
|              | 39                     | H            | -          |              | -            | $\vdash$                       | H        | $\vdash$     | $\vdash$          | H        |
|              | 40                     | H            | -          | H            | $\vdash$     | -                              | H        | $\vdash$     | $\vdash$          |          |
|              | 41                     | T            |            | T            | $\vdash$     | ┢                              | T        | Т            | Ι                 | _        |
|              | 42                     |              |            |              |              |                                |          |              |                   |          |
|              | 43                     |              |            |              |              |                                |          |              |                   |          |
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| <u> </u>     | 45                     | <u> </u>     | _          | _            | _            | _                              | <u> </u> | <u> </u>     | <u> </u>          | <u> </u> |
| ļ            | 46                     | <u> </u>     | <u> </u>   | <u> </u>     | -            |                                | ├-       | <u> </u>     | <u> </u>          | $\vdash$ |
| <u> </u>     | 47<br>48               | <del> </del> | _          | <u> </u>     | <del> </del> | -                              | ├        | <del> </del> |                   | $\vdash$ |
| <u> </u>     | 48                     | ⊢            | $\vdash$   | -            | -            | ├                              | ┝        | ├            | $\vdash$          | -        |
| ├            | 50                     | ⊢            | ├          | <del> </del> | ├            | ⊢                              | ├        | $\vdash$     | -                 | $\vdash$ |

| Tell   File   File |   |           | _            | _        |                                                  | _                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | _            |          | -        |     |                                               |  |
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| 53         54         55         56         57         58         59         60         61         62         63         64         65         66         67         68         69         70         71         72         73         74         75         76         77         78         79         80         81         82         83         84         85         86         87         88         89         90         91         92         93                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |           |              |          |                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |              |          |          |     | Final                                         |  |
| 53         54         55         56         57         58         59         60         61         62         63         64         65         66         67         68         69         70         71         72         73         74         75         76         77         78         79         80         81         82         83         84         85         86         87         88         89         90         91         92         93                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | _ | $\dashv$  |              |          |                                                  | Т                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | $\vdash$     |          |          | 51  |                                               |  |
| 53         54         55         56         57         58         59         60         61         62         63         64         65         66         67         68         69         70         71         72         73         74         75         76         77         78         79         80         81         82         83         84         85         86         87         88         89         90         91         92         93                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | - | $\dashv$  | -            |          | -                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | $\vdash$     |          |          | 52  |                                               |  |
| 56         57         58         59         60         61         62         63         64         65         66         67         68         69         70         71         72         73         74         75         76         77         78         79         80         81         82         83         84         85         86         87         88         89         90         91         92         93                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | _ | $\dashv$  |              |          | -                                                | H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | $\vdash$     |          |          | 53  |                                               |  |
| 56         57         58         59         60         61         62         63         64         65         66         67         68         69         70         71         72         73         74         75         76         77         78         79         80         81         82         83         84         85         86         87         88         89         90         91         92         93                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | _ | $\dashv$  |              |          | $\vdash$                                         | $\vdash$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | $\vdash$     | _        | _        | 54  | <u> </u>                                      |  |
| 56         57         58         59         60         61         62         63         64         65         66         67         68         69         70         71         72         73         74         75         76         77         78         79         80         81         82         83         84         85         86         87         88         89         90         91         92         93                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |   | -         |              |          | $\vdash$                                         | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | H            |          |          | 55  |                                               |  |
| 58         59         60         61         62         63         64         65         66         67         68         69         70         71         72         73         74         75         76         77         78         79         80         81         82         83         84         85         86         87         88         89         90         91         92         93                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   | -         |              | _        | _                                                | <u> </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ⊢            | _        |          | 55  |                                               |  |
| 58         59         60         61         62         63         64         65         66         67         68         69         70         71         72         73         74         75         76         77         78         79         80         81         82         83         84         85         86         87         88         89         90         91         92         93                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | _ | $\dashv$  |              |          | $\vdash$                                         | H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ⊢            |          |          | 20  | <u> </u>                                      |  |
| 59 60 61 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 91 92                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | _ |           | -            |          | <u> </u>                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <del> </del> |          |          | 5/  | ļ                                             |  |
| 60<br>61<br>62<br>63<br>64<br>65<br>66<br>67<br>68<br>69<br>70<br>70<br>71<br>71<br>72<br>73<br>74<br>75<br>76<br>77<br>78<br>79<br>80<br>81<br>82<br>83<br>84<br>85<br>86<br>87<br>88<br>88<br>89<br>90<br>90<br>91<br>92<br>93                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | _ | _         | _            | _        | <u> </u>                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <u> </u>     | _        | _        | 58  | <u>  -                                   </u> |  |
| 61<br>62<br>63<br>64<br>65<br>66<br>67<br>68<br>69<br>70<br>71<br>71<br>72<br>73<br>74<br>75<br>76<br>77<br>78<br>79<br>80<br>81<br>82<br>83<br>84<br>85<br>86<br>87<br>88<br>89<br>90<br>91<br>92<br>93                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   | <u> </u>  | _            |          | _                                                | <u> </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <u> </u>     |          | _        | 59  | <u> </u>                                      |  |
| 62<br>63<br>64<br>65<br>66<br>67<br>68<br>69<br>70<br>71<br>71<br>72<br>73<br>74<br>75<br>76<br>77<br>78<br>79<br>80<br>81<br>82<br>83<br>84<br>85<br>86<br>87<br>88<br>89<br>90<br>91<br>92<br>93                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |   |           | Ш            |          | Ĺ                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <u> </u>     |          |          | 60  |                                               |  |
| 64<br>65<br>66<br>67<br>68<br>69<br>70<br>71<br>72<br>73<br>74<br>75<br>76<br>77<br>78<br>79<br>80<br>81<br>82<br>83<br>84<br>85<br>86<br>87<br>88<br>89<br>90<br>91<br>92<br>93                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | _ |           |              |          |                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | _            |          |          | 61  | L                                             |  |
| 64<br>65<br>66<br>67<br>68<br>69<br>70<br>71<br>72<br>73<br>74<br>75<br>76<br>77<br>78<br>79<br>80<br>81<br>82<br>83<br>84<br>85<br>86<br>87<br>88<br>89<br>90<br>91<br>92<br>93                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |           |              |          | L                                                | $ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{le}}}}}}$ |              |          |          | 62  |                                               |  |
| 64<br>65<br>66<br>67<br>68<br>69<br>70<br>71<br>72<br>73<br>74<br>75<br>76<br>77<br>78<br>79<br>80<br>81<br>82<br>83<br>84<br>85<br>86<br>87<br>88<br>89<br>90<br>91<br>92<br>93                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |           |              |          |                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | _            |          |          | 63  | <u></u>                                       |  |
| 66<br>67<br>68<br>69<br>70<br>71<br>72<br>73<br>74<br>75<br>76<br>77<br>78<br>79<br>80<br>81<br>82<br>83<br>84<br>85<br>86<br>87<br>88<br>89<br>90<br>91<br>92<br>93                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |   |           |              |          |                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |              |          |          | 64  |                                               |  |
| 66<br>67<br>68<br>69<br>70<br>71<br>72<br>73<br>74<br>75<br>76<br>77<br>78<br>79<br>80<br>81<br>82<br>83<br>84<br>85<br>86<br>87<br>88<br>89<br>90<br>91<br>92<br>93                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |   |           |              |          |                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |              |          |          | 65  |                                               |  |
| 67<br>68<br>69<br>70<br>71<br>72<br>73<br>74<br>75<br>76<br>77<br>78<br>79<br>80<br>81<br>82<br>83<br>84<br>85<br>86<br>87<br>88<br>89<br>90<br>91<br>92<br>93                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |   |           |              |          |                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |              |          |          | 66  |                                               |  |
| 68<br>69<br>70<br>71<br>72<br>73<br>74<br>75<br>76<br>77<br>78<br>79<br>80<br>81<br>82<br>83<br>84<br>84<br>85<br>86<br>87<br>88<br>89<br>90<br>91<br>92<br>93                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |   |           |              |          |                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |              |          |          | 67  |                                               |  |
| 69 70 71 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |           |              |          |                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |              |          |          | 68  |                                               |  |
| 70 71 72 73 74 75 76 77 78 79 80 81 81 82 83 84 85 86 87 88 89 90 91 92 93                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |           | _            |          | Г                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |              |          |          | 69  |                                               |  |
| 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | _ |           |              |          |                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |              |          |          | 70  |                                               |  |
| 72<br>73<br>74<br>75<br>76<br>77<br>78<br>79<br>80<br>81<br>82<br>83<br>84<br>85<br>86<br>87<br>88<br>89<br>90<br>91<br>92<br>93                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | _ |           |              |          | Г                                                | Г                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | $\vdash$     |          |          | 71  |                                               |  |
| 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | _ | $\neg$    |              |          | Н                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | $\vdash$     | $\vdash$ |          | 72  |                                               |  |
| 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | _ | П         |              |          | _                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 一            | $\vdash$ |          | 73  |                                               |  |
| 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | _ |           | _            |          | <del>                                     </del> | _                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <u> </u>     | _        |          | 74  |                                               |  |
| 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | _ | $\dashv$  |              |          | -                                                | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -            |          | Н        | 75  |                                               |  |
| 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |   |           |              |          |                                                  | <u> </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |              |          |          | 76  |                                               |  |
| 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | _ | $\neg$    | _            |          | -                                                | Ι                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ┢            |          |          | 77  |                                               |  |
| 80<br>81<br>82<br>83<br>84<br>85<br>86<br>87<br>88<br>89<br>90<br>91<br>91<br>92                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   | $\exists$ |              |          |                                                  | $\vdash$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ├─           | _        |          | 78  | $\vdash$                                      |  |
| 80<br>81<br>82<br>83<br>84<br>85<br>86<br>87<br>88<br>89<br>90<br>91<br>91<br>92                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | _ | $\exists$ | _            |          | -                                                | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ┢            | ├        | Н        | 79  |                                               |  |
| 81<br>82<br>83<br>84<br>85<br>86<br>87<br>88<br>89<br>90<br>91<br>92<br>93                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | _ | $\exists$ |              |          | $\vdash$                                         | ┢                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -            | _        |          | 80  | $\vdash$                                      |  |
| 82<br>83<br>84<br>85<br>86<br>87<br>88<br>89<br>90<br>91<br>91<br>92                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |   | Н         | -            |          | H                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |              |          | H        | 81  | <b></b>                                       |  |
| 83<br>84<br>85<br>86<br>87<br>88<br>89<br>90<br>91<br>92<br>93                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | _ |           | $\vdash$     | H        | H                                                | ┢                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ⊢            | -        | -        | 92  | <u> </u>                                      |  |
| 84<br>85<br>86<br>87<br>88<br>89<br>90<br>91<br>92<br>93                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   | $\vdash$  | $\vdash$     | ┝        | H                                                | $\vdash$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | $\vdash$     | $\vdash$ | -        | 82  | <u> </u>                                      |  |
| 86<br>87<br>88<br>89<br>90<br>91<br>91<br>92<br>93                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |   | $\vdash$  | -            | $\vdash$ | ⊢                                                | $\vdash$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1            | $\vdash$ | $\vdash$ | 03  | <b></b>                                       |  |
| 86<br>87<br>88<br>89<br>90<br>91<br>91<br>92<br>93                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |   | -         |              | ├-       | <del> </del>                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -            | $\vdash$ | $\vdash$ | 04  | <u> </u>                                      |  |
| 88<br>89<br>90<br>91<br>92<br>93                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |           | -            | ├        | -                                                | <del> </del>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | $\vdash$     | -        | $\vdash$ | 00  |                                               |  |
| 88<br>89<br>90<br>91<br>92<br>93                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   | $\vdash$  | $\vdash$     |          | <del> </del>                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>-</b>     | ├-       | -        | 80  | -                                             |  |
| 89<br>90<br>91<br>92<br>93                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   | $\vdash$  | ├            | Ŀ        | $\vdash$                                         | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | $\vdash$     | $\vdash$ | <u> </u> | 8/  | <u></u>                                       |  |
| 90<br>91<br>92<br>93                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |   |           | <del> </del> | <u> </u> | $\vdash$                                         | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1            | <u> </u> | <u> </u> | 88  |                                               |  |
| 91<br>92<br>93                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | _ |           | ┝            | <u> </u> | <u> </u>                                         | <u> </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ⊢            | <u> </u> | _        | 89  | <u> </u>                                      |  |
| 92 93                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |   | Ш         | <u> </u>     | $\vdash$ | ١                                                | $\vdash$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | $\vdash$     | $\vdash$ |          | 90  | <u></u>                                       |  |
| 93                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |   | Ш         | $\vdash$     | ⊨        | <b>—</b>                                         | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>—</b>     | <u> </u> | <u> </u> | 91  |                                               |  |
| 93                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |   | Ш         | <u> </u>     | ├        | Ь—                                               | <u> </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ⊢-           | $\vdash$ | <u> </u> | 92  |                                               |  |
| 1 194                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |   | Ш         | $\vdash$     | <u> </u> | <b>—</b>                                         | <b>—</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | $\vdash$     | <u> </u> | ⊢        | 93  | <u></u>                                       |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |   | -         |              | <u> </u> | <u> </u>                                         | <u> </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <u> </u>     | <u> </u> | ⊢        |     | <u></u>                                       |  |
| 95                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |   | Ш         | ┡            | -        | L.                                               | L.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <u> </u>     |          | ⊢        |     |                                               |  |
| 96                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |   | Ш         | <u> </u>     | <u> </u> | L.                                               | _                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | _            | <b>!</b> | <u> </u> |     | <u></u>                                       |  |
| 97                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |   | Ш         | ļ            | <u> </u> |                                                  | <u> </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |              | <u> </u> | <u> </u> |     |                                               |  |
| 98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |   | Ш         | L            | <u> </u> |                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | _            | <u> </u> | 匚        |     |                                               |  |
| 99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |   | Ш         | <u> </u>     | L_       |                                                  | <u> </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <u> </u>     | Щ        | <u>L</u> | 99  | <u></u>                                       |  |
| 100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   | ليا       |              | <u>L</u> | 乚                                                | <u> </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <u> </u>     |          | <u></u>  | 100 | L                                             |  |

| Claim       |                   |                                                  |          |          |          | Date     |                                     |                    |          |          |
|-------------|-------------------|--------------------------------------------------|----------|----------|----------|----------|-------------------------------------|--------------------|----------|----------|
|             |                   |                                                  |          |          |          |          |                                     |                    |          |          |
| a           | Original          |                                                  |          |          |          |          |                                     |                    |          |          |
| Final       | rig               |                                                  |          |          |          |          |                                     |                    |          |          |
|             | 0                 |                                                  |          |          |          |          |                                     |                    |          |          |
|             | 101               |                                                  |          | $\vdash$ | _        | $\neg$   |                                     |                    | Н        |          |
|             | 101<br>102        | _                                                |          | Н        |          |          |                                     |                    |          | $\dashv$ |
|             | 103               | _                                                | _        | $\vdash$ | -        |          | -                                   | _                  |          |          |
| <u> </u>    | 103<br>104        |                                                  |          | -        |          |          |                                     |                    |          |          |
|             | 105               |                                                  |          | -        | _        |          | _                                   |                    |          |          |
|             | 106               | _                                                |          | -        | _        |          |                                     |                    |          |          |
|             | 106<br>107        |                                                  |          |          | _        |          | _                                   |                    |          |          |
|             | 108               |                                                  |          | H        |          |          |                                     |                    | Н        |          |
|             | 109               |                                                  |          | Н        |          |          |                                     |                    | Н        |          |
|             | 110               | _                                                | $\vdash$ | H        | $\vdash$ | -        |                                     |                    | Н        | $\dashv$ |
|             | 111               | -                                                |          | $\vdash$ |          |          | -                                   |                    |          | Н        |
|             | 112               | $\vdash$                                         | F        | $\vdash$ |          |          | _                                   | $\vdash$           | $\vdash$ | $\dashv$ |
| <u> </u>    | 113               | H                                                | Н        |          |          |          | -                                   | Н                  | Н        | $\vdash$ |
| <u> </u>    | 114               | <del>                                     </del> | -        | -        |          |          | $\vdash$                            | _                  | -        | $\dashv$ |
| $\vdash$    | 114<br>115        | -                                                | -        | -        | _        |          | -                                   | -                  | -        | $\vdash$ |
|             | 116               | -                                                | <u> </u> | _        | $\vdash$ | -        | H                                   |                    | $\vdash$ | H        |
| <del></del> | 117               | H                                                | $\vdash$ | $\vdash$ |          |          |                                     |                    | Н        | $\dashv$ |
|             | 118               | H                                                | $\vdash$ |          |          |          |                                     | Н                  | Н        | $\vdash$ |
|             | 119               | -                                                | -        | H        | -        |          |                                     |                    |          | $\dashv$ |
|             | 120               |                                                  | -        |          |          | _        | _                                   |                    |          | $\dashv$ |
|             | 120<br>121        | _                                                | $\vdash$ | H        |          |          | -                                   | -                  | -        | $\dashv$ |
|             | 122<br>123<br>124 | _                                                | $\vdash$ | -        | _        |          |                                     | -                  | -        | $\vdash$ |
|             | 123               |                                                  | $\vdash$ | $\vdash$ |          |          |                                     |                    |          | Н        |
|             | 124               |                                                  |          | $\vdash$ |          |          |                                     |                    | $\vdash$ | $\vdash$ |
|             | 125               |                                                  |          |          |          |          | $\overline{}$                       |                    | $\vdash$ | $\dashv$ |
| -           | 125<br>126        |                                                  | _        |          | _        |          |                                     |                    |          |          |
|             | 127               |                                                  |          |          |          |          |                                     |                    |          | П        |
|             | 128               |                                                  |          |          |          |          |                                     |                    |          |          |
| ·           | 128<br>129        |                                                  |          | Г        |          |          |                                     |                    |          |          |
|             | 130<br>131        |                                                  |          |          |          |          |                                     |                    |          |          |
|             | 131               |                                                  |          |          |          | Г        |                                     |                    |          |          |
|             | 132               |                                                  |          |          |          |          |                                     |                    |          |          |
|             | 133               |                                                  |          |          |          |          |                                     |                    |          |          |
|             | 133<br>134        |                                                  |          |          |          |          |                                     |                    |          |          |
|             | 135               | L                                                |          |          |          |          |                                     |                    |          |          |
|             | 136               |                                                  |          |          |          |          |                                     |                    |          |          |
|             | 136<br>137        |                                                  |          |          |          |          |                                     |                    |          |          |
|             | 138               |                                                  |          |          |          |          | Ĺ                                   |                    |          |          |
|             | 139               |                                                  |          |          |          |          |                                     | L                  |          |          |
|             | 140               |                                                  |          |          |          |          |                                     |                    |          |          |
|             | 141               |                                                  |          | 匚        |          |          |                                     |                    |          |          |
|             | 142               |                                                  |          |          |          |          |                                     |                    |          |          |
|             | 143               |                                                  |          | Ĺ        |          |          | _                                   | $\Box$             | 匚        |          |
|             | 144               | $\Box$                                           |          |          |          | L        | L                                   | $\Box$             |          |          |
|             | 145               | <u> </u>                                         |          |          |          |          | 匚                                   |                    |          |          |
|             | 146               | _                                                |          | 匚        | <u> </u> |          | <u> </u>                            | L                  | L        | Ш        |
| <u></u>     | 147               | _                                                | L        | <u> </u> | _        | L        | <u> </u>                            | $oxedsymbol{oxed}$ | Ĺ        | Ш        |
| <u></u>     | 148               | _                                                | L        | Ĺ        |          | _        | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | L                  | L        | Ш        |
| L           | 149               | <u> </u>                                         | L        | <u> </u> | <u> </u> | 匚        | <u> </u>                            | <u> </u>           | _        | Ш        |
|             | 150               |                                                  |          |          |          | <u> </u> | <u> </u>                            |                    |          |          |